

4121-168

IN THE CLAIMS:

Please cancel claims 1-19 without prejudice.
Please add new claims 20-30 presented below.

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Complete Listing of the Claims

Upon entry of the present amendment, the claims will stand as follows. The following listing of the claims will replace all prior versions and listings of the claims in the present application:

1-19. (Canceled)

20. (New) A method of increasing the content of one or more desired transgene-coded proteins or peptides in a transgenic plant, comprising inhibiting a plastidial ATP/ADP transporter gene in said plant by antisense inhibition thereof, wherein the plant is transformed with and expresses (i) an antisense gene construct for the plastidial ATP/ADP transporter gene, (ii) a selectable marker gene and (iii) one or more further desired transgenes.

21. (New) The method according to claim 20, wherein the antisense gene construct for the plastidial ATP/ADP transporter gene is a cDNA of the plastidial ATP/ADP transporter in antisense orientation.

22. (New) The method according to claim 20, wherein the expression of the transgene-coded proteins or peptides is constitutive or is regulated temporally, locally or inducibly.

23. (New) The method according to claim 20, wherein several transgene-coded proteins or peptides are expressed in parallel or sequentially.

24. (New) The method according to claim 20, wherein the plant comprises gramineae, chenopodiaceae, leguminosae, brassicaceae, solanaceae, fungi, mosses, and algae.

25. (New) The method according to claim 20, wherein the plant comprises wheat, barley, rice, corn, sugar beets, sugarcane, rape, mustard, oilseed rape, flax, safflower, peas, beans, lupins, tobacco, lucerne, soya, bananas, ananas, potatoes, sunflowers, melons, sweet potatoes, spelt, alfalfa, paprika, topinambur, tomatoes, durum wheat, rye or batata.

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26. (New) The method according to claim 20, wherein the one or more further desired transgenes codes for a protein selected from the group consisting of an antibody, a receptor, a growth factor, a hormone, a specific antigen, an interferon, an immunoglobulin, a growth hormone, insulin, collagen, plasminogen activator, blood factor, a histocompatibility antigen, a tumor marker protein and a viral protein.
27. (New) A method of increasing the content of one or more transgene-coded proteins or peptides in a transgenic potato plant comprising inhibiting a potato plastidary ATP/ADP transporter gene in said plant by antisense inhibition thereof, wherein the potato plant is transformed with and expresses (i) an antisense gene construct for the plastidary ATP/ADP transporter gene, (ii) a selectable marker gene and (iii) one or more further desired transgenes.
28. (New) The method according to claim 27, wherein the expression of the transgene-coded proteins or peptides is constitutive or is regulated temporally, locally or inducibly.
29. (New) The method according to claim 27, wherein several transgene-coded proteins or peptides are expressed in parallel or sequentially.
30. (New) The method according to claim 27, wherein the antisense construct suppressing the expression of the plastidary ATP/ADP transporter is a cDNA of the plastidary ATP/ADP transporter in antisense orientation.

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